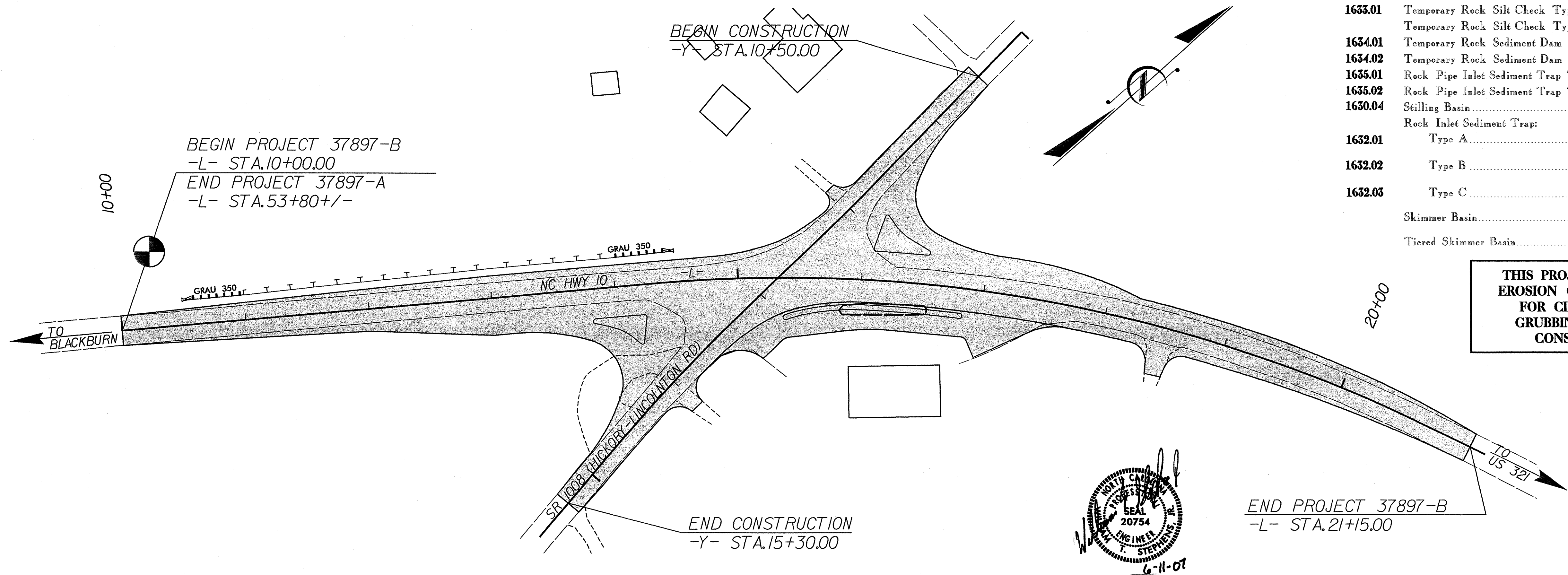


WBS ELEMENT: 37897-B

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 PLAN FOR PROPOSED
 HIGHWAY EROSION CONTROL

CATAWBA COUNTY

LOCATION: INTERSECTION OF HIGHWAY 10 AND SR 1008
 TYPE OF WORK: GRADING, DRAINAGE, & PAVING

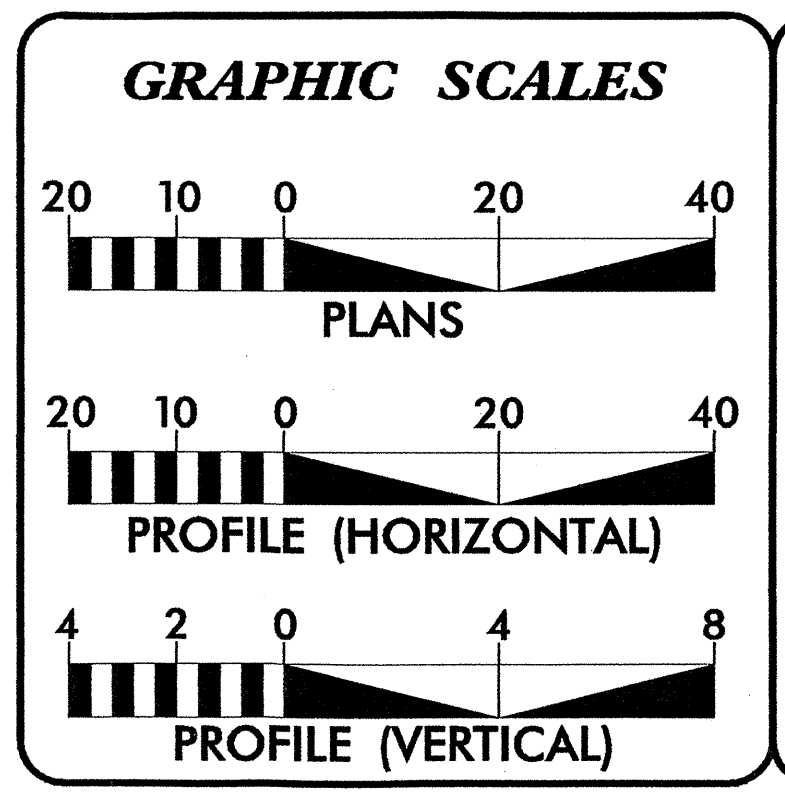


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	37897-B	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	XXXXXX
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	ZZZZZZ
1622.01	Temporary Berms and Slope Drains	TSD
1630.01	Riser Basin	RB
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSA
	Temporary Rock Silt Check Type-B	TRSB
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTB
1630.04	Stilling Basin	SB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB

THIS PROJECT CONTAINS
 EROSION CONTROL PLANS
 FOR CLEARING AND
 GRUBBING PHASE OF
 CONSTRUCTION.



Plans Prepared By:
TGS ENGINEERS
 SUITE 141
 975 WALNUT STREET
 CARY, NC 27511
 PH (919) 319-8850

Plans Prepared For:
NC DOT DIVISION 12
 NCDOT Contact:
GARY R. SPANGLER
 DIVISION PROJECT MANAGER

2006 STANDARD SPECIFICATIONS
RIGHT OF WAY DATE:
FEBRUARY 2007

LETTING DATE:
DECEMBER 18, 2007

CHARLES L. FLOWE, PE
 PROJECT ENGINEER

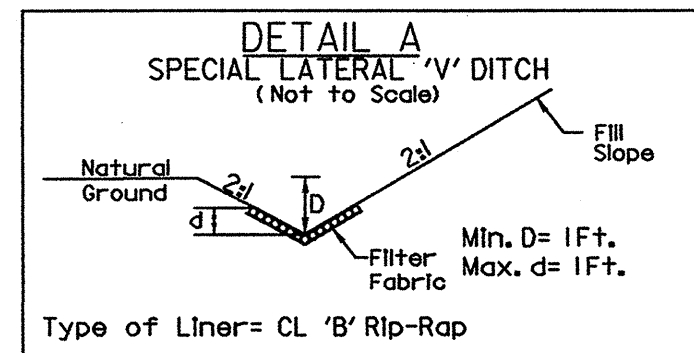
WILLIAM T. STEPHENS, PE
 PROJECT DESIGN ENGINEER

Roadway Standard Drawings

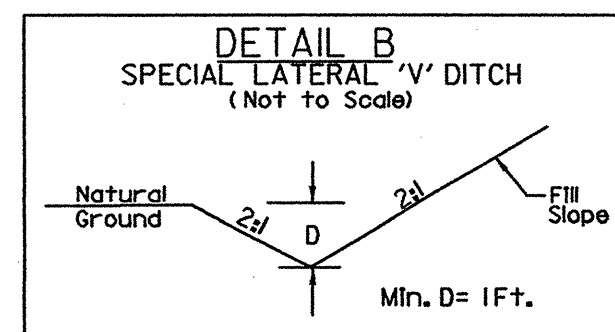
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1630.06 Special Stilling Basin
1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A
1606.01 Special Sediment Control Fence	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	

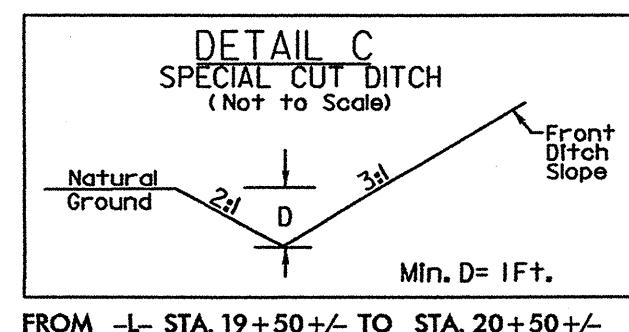
8/17/99



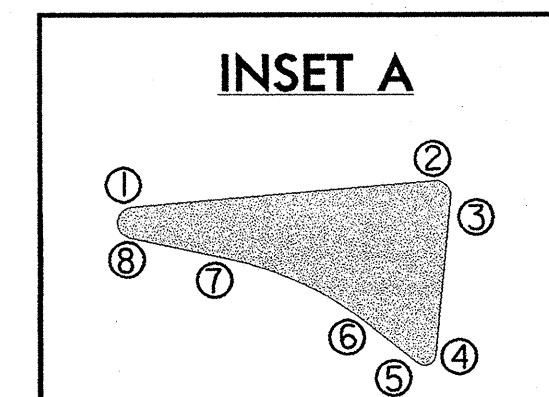
Type of Liner= CL 'B' Rip-Rap
 FROM -L- STA. 11+00+/- TO STA. 11+66+/-
 EST. CL. 'B' RIP RAP = 23 TONS
 EST. FILTER FABRIC = 69 SY



FROM -L- STA. 11+66+/- TO STA. 13+50+/-
 FROM -L- STA. 16+65+/- TO STA. 19+00+/-

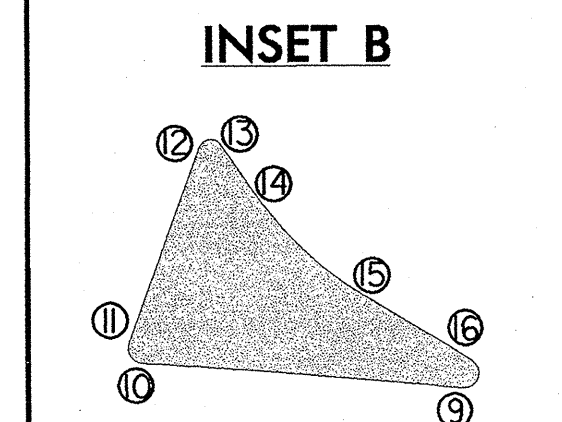


FROM -L- STA. 19+50+/- TO STA. 20+50+/-



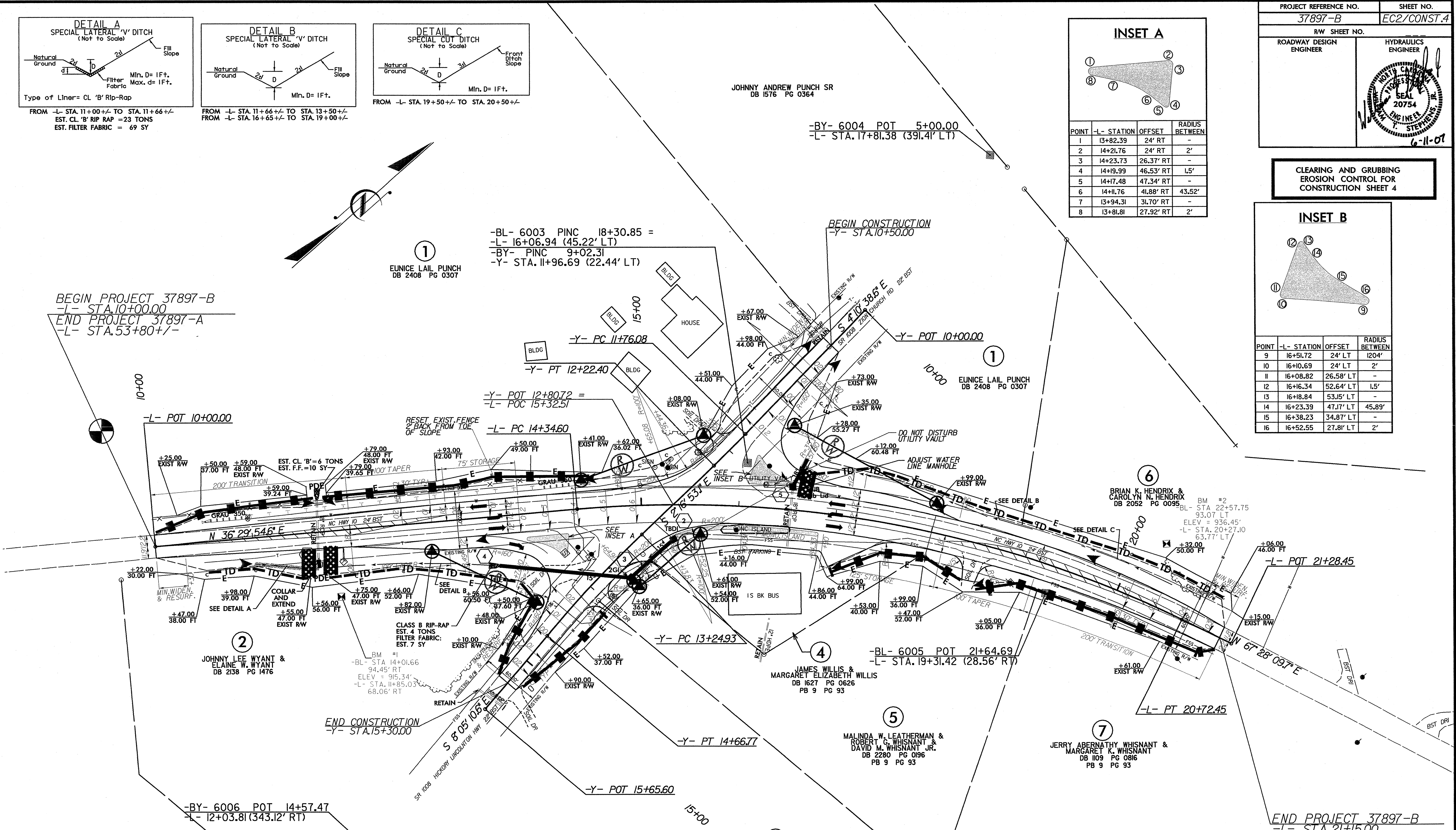
POINT	-L- STATION	OFFSET	RADIUS BETWEEN
1	13+82.39	24' RT	-
2	14+21.76	24' RT	2'
3	14+23.73	26.37' RT	-
4	14+19.99	46.53' RT	1.5'
5	14+17.48	47.34' RT	-
6	14+11.76	41.88' RT	43.52'
7	13+94.31	31.70' RT	-
8	13+81.81	27.92' RT	2'

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 4



POINT	-L- STATION	OFFSET	RADIUS BETWEEN
9	16+51.72	24' LT	1204'
10	16+10.69	24' LT	2'
11	16+08.82	26.58' LT	-
12	16+16.34	52.64' LT	1.5'
13	16+18.84	53.15' LT	-
14	16+23.39	47.17' LT	45.89'
15	16+38.23	34.87' LT	-
16	16+52.55	27.88' LT	2'

BRIAN K. HENDRIX &
 CAROLYN N. HENDRIX
 DB 2052 PG 0095
 BM #2
 -BL- STA 22+57.75
 93.07 LT
 ELEV = 936.45'
 -L- STA. 20+27.10
 63.77' LT



-L-		-Y-	
PI Sta 17+61.52	PI Sta 11+99.24	PI Sta 13+95.91	
$\Delta = 30' 58' 15.1''$ (RT)	$\Delta = 1' 53' 45.5''$ (RT)	$\Delta = 5' 48' 17.5''$ (LT)	
$D = 4' 51' 20.1''$	$D = 4' 05' 33.2''$	$D = 4' 05' 33.2''$	
$L = 637.84'$	$L = 46.33'$	$L = 141.84'$	
$T = 326.92'$	$T = 23.17'$	$T = 70.98'$	
$R = 1,180.00'$	$R = 1,400.00'$	$R = 1,400.00'$	
$SE = 0.06$	$SE = 0.02$	$SE = 0.02$	

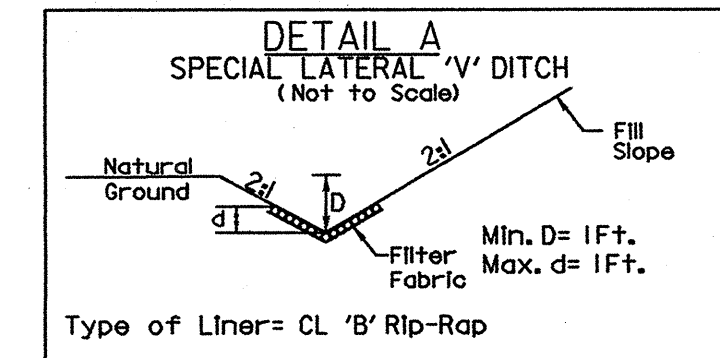
Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	▲▲▲▲▲▲▲▲
1630.03	Temporary Silt Ditch	—TSD—
1632.03	Rock Inlet Sediment Trap Type C	□
1633.01	Temporary Rock Silt Check Type-A	▣
1633.02	Temporary Rock Silt Check Type-B	▶

REVISIONS

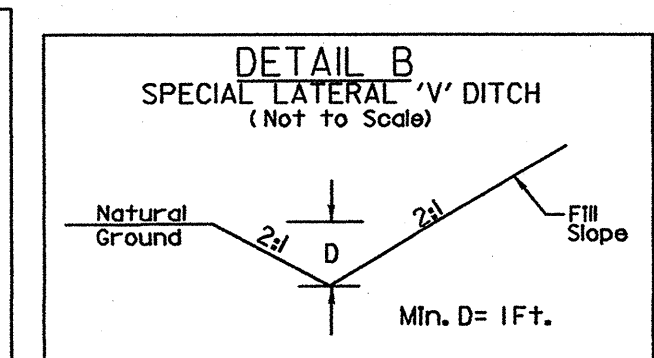
PROJECT REFERENCE NO. 37897-B
 SHEET NO. EC2/CONST.4
 ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER
 SEAL 20754
 6-11-07

8/17/99

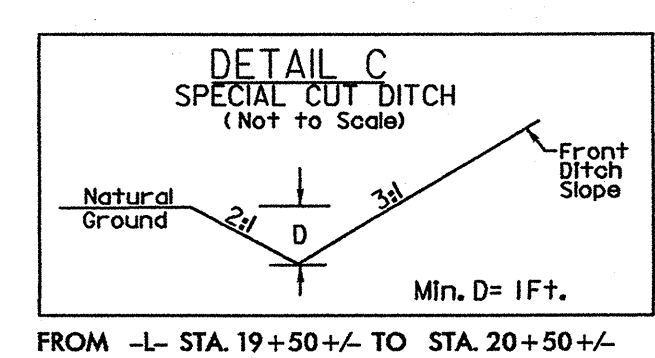
PROJECT REFERENCE NO. 37897-B	SHEET NO. EC3/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



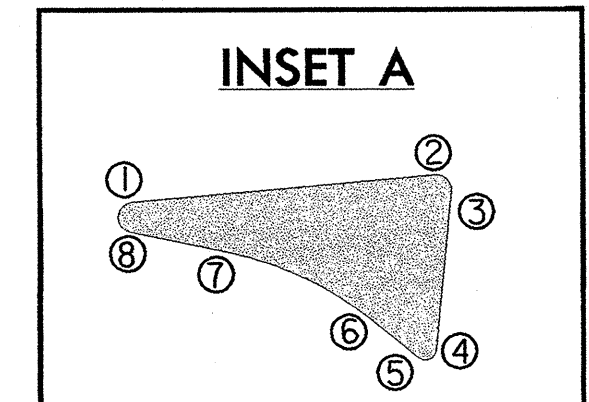
Type of Liner= CL 'B' Rip-Rap
 FROM -L- STA. 11+00+/- TO STA. 11+66+/-
 EST. CL. 'B' RIP RAP = 23 TONS
 EST. FILTER FABRIC = 69 SY



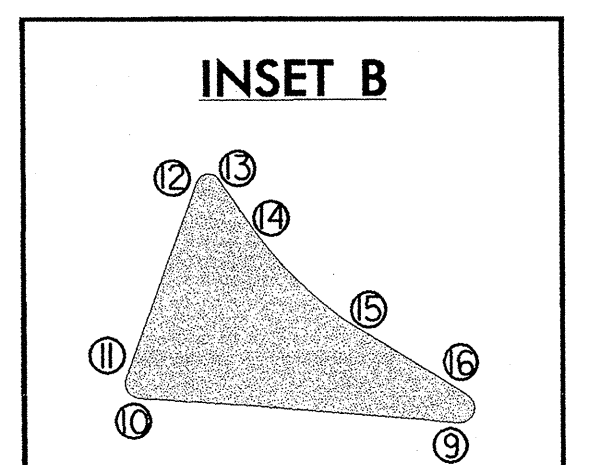
FROM -L- STA. 11+66+/- TO STA. 13+50+/-
 FROM -L- STA. 16+65+/- TO STA. 19+00+/-



FROM -L- STA. 19+50+/- TO STA. 20+50+/-



POINT	-L- STATION	OFFSET	RADIUS BETWEEN
1	13+82.39	24' RT	-
2	14+21.76	24' RT	2'
3	14+23.73	26.37' RT	-
4	14+19.99	46.53' RT	1.5'
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POINT	-L- STATION	OFFSET	RADIUS BETWEEN
9	16+51.72	24' LT	1204'
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15	16+38.23	34.87' LT	-
16	16+52.55	27.81' LT	2'

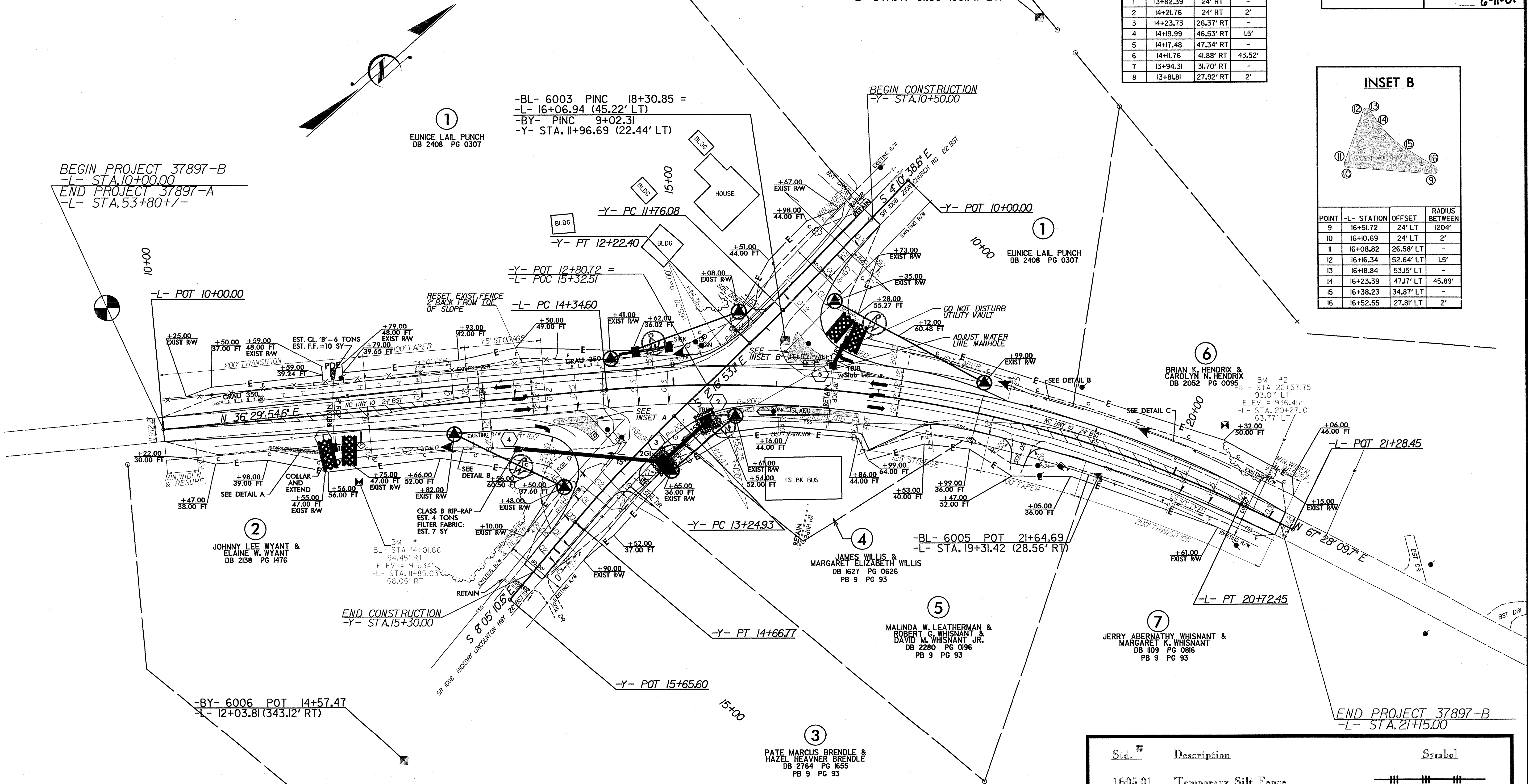
JOHNNY ANDREW PUNCH SR
 DB 1576 PG 0364

-BY- 6004 POT 5+00.00
 -L- STA. 17+81.38 (391.41' LT)

-BL- 6003 PINC 18+30.85 =
 -L- 16+06.94 (45.22' LT)
 -BY- PINC 9+02.31
 -Y- STA. 11+96.69 (22.44' LT)

1
 EUNICE LAIL PUNCH
 DB 2408 PG 0307

BEGIN PROJECT 37897-B
 -L- STA. 10+00.00
 END PROJECT 37897-A
 -L- STA. 53+80+/-



-L- POT 10+00.00

-Y- POT 12+80.72 =
 -L- POC 15+32.51

-Y- POT 10+00.00

1
 EUNICE LAIL PUNCH
 DB 2408 PG 0307

6
 BRIAN K. HENDRIX &
 CAROLYN N. HENDRIX
 DB 2052 PG 0095
 BM #2
 -BL- STA 22+57.75
 93.07 LT
 ELEV = 936.45'
 -L- STA. 20+27.10
 63.77' LT

2
 JOHNNY LEE WYANT &
 ELAINE W. WYANT
 DB 2158 PG 1476

BM #1
 -BL- STA 14+01.66
 94.45' RT
 ELEV = 915.34'
 -L- STA. 11+85.03
 68.06' RT

4
 JAMES WILLIS &
 MARGARET ELIZABETH WILLIS
 DB 1627 PG 0626
 PB 9 PG 93

-BL- 6005 POT 21+64.69
 -L- STA. 19+31.42 (28.56' RT)

5
 MALINDA W. LEATHERMAN &
 ROBERT C. WHISNANT &
 DAVID M. WHISNANT JR.
 DB 2280 PG 0196
 PB 9 PG 93

7
 JERRY ABERNATHY WHISNANT &
 MARGARET K. WHISNANT
 DB 1109 PG 0816
 PB 9 PG 93

-BY- 6006 POT 14+57.47
 -L- 12+03.81 (343.12' RT)

END PROJECT 37897-B
 -L- STA. 21+15.00

3
 PATE MARCUS BRENDEL &
 HAZEL HEAVNER BRENDEL
 DB 2764 PG 1655
 PB 9 PG 93

-L-	-Y-	-Y-
PI Sta 17+61.52	PI Sta 11+99.24	PI Sta 13+95.91
$\Delta = 30' 58' 15.1''$ (RT)	$\Delta = 1' 53' 45.5''$ (RT)	$\Delta = 5' 48' 17.5''$ (LT)
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L = 637.84'	L = 46.33'	L = 141.84'
T = 326.92'	T = 23.17'	T = 70.98'
R = 1,180.00'	R = 1,400.00'	R = 1,400.00'
SE = 0.06	SE = 0.02	SE = 0.02

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	▤ ▤ ▤ ▤ ▤ ▤ ▤ ▤ ▤ ▤
1630.05	Temporary Silt Ditch	— TSD —
1652.05	Rock Inlet Sediment Trap Type C	□
1633.01	Temporary Rock Silt Check Type-A	▣
1633.02	Temporary Rock Silt Check Type-B	▶

REVISIONS

SYSTEMS
 DON
 US